



Contract No. 009359	Station Section 4A	Mile/Line: US-12	C/S
Staked by SURVEY 7/1/2019	Date 	Work Started Date 7/8/2019	Work Completed Date
Calculated by Scott Busby 8/4/2019	Date 	Checked by E. Knudson 8/8/2019	Date
		Inspector Scott Busby	Date 8/5/19

ITEM NO. 15
Section 4A - US-12 MP 192 to MP 203
BEAM GUARDRAIL TYPE 31

Est.#5

Group Number 28

7/8/2019 - US-12

- Station MP 199.37 S1 N 40th Ave On Ramp 0.15 LT WB - Sheet 1 - Install **37.5 LF** of Beam Guardrail Type 31 -
- 37.5 = (6 posts) Total of **6** wood posts
- **8** steel post (Typ.)

7/12/2019 - US-12

- Station MP 192.85 Main RT EB - Sheet 1 - Install **37.5 LF** of Beam Guardrail Type 31 -
- 37.5 = (6 posts) Total of **6** wood posts
- **8** steel post (Typ.)
- Station MP 192.94 Main RT EB - Sheet 1 - Install **37.5 LF** of Beam Guardrail Type 31 -
- 37.5 = (6 posts) Total of **6** wood posts
- **8** steel post (Typ.)

7/15/2019 - US-12

- Station MP 193.03 Main LT EB - Sheet 8 - Install **37.5 LF** of Beam Guardrail Type 31 -
- 37.5 = (6 posts) Total of **6** wood posts
- **8** steel post (Typ.)
- Station MP 193.08 Main LT WB - Sheet 8 - Install **37.5 LF** of Beam Guardrail Type 31 -
- 37.5 = (6 posts) Total of **6** wood posts
- **8** steel post (Typ.)
- Station MP 198.75 Main RT WB - Sheet 3 - Install **87.5 LF** of Beam Guardrail Type 31
- 87.5 - 37.5 = 37.5 (6 posts) + (50/6.25 = 8) Total of 14 wood posts
- **8** steel post (Typ.)

7/16/2019 - US-12

- Station MP 199.92 Main LT EB - Sheet 8 - Install **262.5 LF** of Beam Guardrail Type 31
- $262.5 - 37.5 = 37.5$ (6 posts) + $(225/6.25 = 36)$ Total of **42** wood posts
- **8** steel post (Typ.)

7/18/2019 - US-12

- Station MP 198.77 Main LT WB - Sheet 1 - Install **37.5 LF** of Beam Guardrail Type 31 -
- $37.5 = (6 \text{ posts})$ Total of **6** wood posts
- **8** steel post (Typ.)
- Station MP 199.79 Main RT EB - Sheet 3 - Install **112.5 LF** of Beam Guardrail Type 31
- $112.5 - 37.5 = 37.5$ (6 posts) + $(75/6.25 = 12)$ Total of 18 wood posts
- **8** steel post (Typ.)

Sub Total: $((37.5*6)+87.5+262.5+112.5) = \underline{\underline{687.5 \text{ LT}}}$

$((6*6)+14+42+18) = \underline{\underline{110 \text{ ea.}}}$ wood posts

$(9*8) = \underline{\underline{72 \text{ ea.}}}$ steel post (Typ.)

Group Number 29

7/8/2019 - US-12

- Station MP 200.18 Main LT WB - Sheet 8 - Install **87.5 LF** of Beam Guardrail Type 31
- $87.5 - 37.5 = 37.5$ (6 posts) + $(50/6.25 = 8)$ Total of 14 wood posts
- **8** steel post (Typ.)
- Station MP 200.36 Main RT WB - Sheet 1 - Install **37.5 LF** of Beam Guardrail Type 31 -
- $37.5 = (6 \text{ posts})$ Total of **6** wood posts
- **8** steel post (Typ.)

7/9/2019 - US-12

- Station MP 200.55 R1 N 40th Ave Off Ramp 0.39 LT WB - Sheet 1 - Install **37.5 LF** of Beam Guardrail Type 31 -
- $37.5 = (6 \text{ posts})$ Total of **6** wood posts
- **8** steel post (Typ.)
- Station MP 202.54 S5 N 1st St On Ramp 0.20 RT WB - Sheet 5 - N/A Transition to Non-flared terminal.- **8** steel post (Typ.)

7/10/2019 - US-12

- Station MP 200.02 Main LT WB - Sheet 8 - Install **187.5 LF** of Beam Guardrail Type 31
- $187.5 - 37.5 = 37.5$ (6 posts) + $(150/6.25 = 24)$ Total of **30** wood posts
- **8** steel post (Typ.)
- Station MP 202.65 Main LT EB - Sheet 5 - Install **100 LF** of Beam Guardrail Type 31
- $100 - 37.5 = 37.5$ (6 posts) + $(62.5/6.25 = 10)$ Total of **16** wood posts

- **8** steel post (Typ.)

7/16/2019 - US-12

- Station MP 201.56 LX N 16th Ave On Ramp 0.09 LT - Sheet 5 - N/A Transition to Non-flared terminal.- **8** steel post (Typ.)

7/17/2019 - US-12

- Station MP 200.08 Main LT EB - Sheet 8 - Install **75 LF** of Beam Guardrail Type 31
- $75 - 37.5 = 37.5$ (6 posts) + $(37.5/6.25 = 6)$ Total of **12** wood posts
- **8** steel post (Typ.)

Sub Total: $(87.5 + (37.5 \times 2) + 187.5 + 100 + 75) = \underline{525 \text{ LF}}$

$(14 + 6 + 6 + 30 + 16 + 12) = \underline{84 \text{ ea.}}$ wood posts

$(8 \times 7) = \underline{56 \text{ ea.}}$ Steel posts (Typ.) TL-3

6 ea. steel posts (Typ.) TL-2

Totals:

$(687.5 + 525) = \underline{1,212.5 \text{ LF}}$ Beam Guardrail Type 31

$(100 + 84) = \underline{184 \text{ ea.}}$ Wood post

$(72 + 56) = \underline{128 \text{ ea.}}$ Steel posts TC-3

1 ea. Steel posts TC-2

Note:

Measured by wheel and counted

Item Num	Material Brand Name/Model Type	Manufacturer	Brand Name/Model Type	RAMS/QPL Ref. No.	Appr/Acc Code	Basis of Accept
015.02	Beam Guardrail Thrie Beam Elements and Components	Trinity Highway Products, LLC		QPL-0001	2215 /	Mfr. Cert. per Std. Spec. 1-06.3
015.03	Beam Guardrail Wood Post and Blocks	Superior Wood Treating		QPL-0005	2550 /	Lumber Grading Stamp or Grading Certificate and Certificate of Treatment. (If Aquatic Envir. Std. Spec. 9-09.3 (1) Applies)
015.04	Beam Guardrail Steel Post and Blocks	Trinity Highway Products, LLC		QPL-0002	2215 /	Mfr. Cert. per Std. Spec. 1-06.3

Item Num	Item Description	Grp	Date Work Complete	Unit	Quantity	Ledger Entry No.	Posted By Init.	Posted By Date	Checked By Init.	Checked By Date	Est. No.
0015	BEAM GUARDRAIL TYPE 31	28	8/5/2019	L.F.	687.5	182	EK	08/09/19			5
0015	BEAM GUARDRAIL TYPE 31	29	8/5/2019	L.F.	525	183	EK	08/09/19			5

Attachments



Things to do 82-2.xlsx
Microsoft Excel
Worksheet
400 KB

DOT Form IP 422-635ER EF
Revised 4/2009